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DESCRIPTION

Data Communication Apparatus

T.H. This application is a 371 of PCT/JP04/09021 filed on 06/25/2004.

Technical Field

This invention relates to a data communication apparatus for non-contact data communication exploiting electromagnetic induction. This application claims priority of Japanese Patent Application No.2003-188462, filed in Japan on June 30, 2003, the entirety of which is incorporated by reference herein.

Background Art

Recently, in the field of automatic ticket checkers or electronic money systems, a non-contact IC card is in use. This non-contact IC card includes, within the bulk of the card, an IC (integrated circuit) chip, composed of various electronic circuits, adapted for performing various processing operations for data write/readout, and a loop coil antenna, composed of a conductor wound in a flat configuration. The non-contact IC card exploits the a.c. voltage, induced in a loop coil antenna provided to the non-contact IC card, under an a.c. magnetic field of, for example, 13.56 MHz, generated in the loop coil antenna provided to a reader/writer adapted to write or read out data for the non-contact IC card, on the basis of the principle of electromagnetic induction, as a power supply for actuating an IC chip. Moreover, the non-contact IC card has non-contact data communication with the